

## PRIMERGY TX120

### Mono socket Dual-Core Tower Server - Leading edge energy and space saving technologies at quietest operation

PRIMERGY TX Tower Servers deliver highest reliability rates with proven data center technology comparable with high end UNIX servers. The innovative, broadest portfolio of virtualization, server and solution offerings stand for TCO reductions of 60% or more. Optimized air flow cooling technology assures a long life and highest possible performance/watt at work as well as by far best in class efficiency proven by numerous benchmark records. And as your business grows, plenty of headroom for expansion protects your investments in PRIMERGY as well as our universal tower-to-rack conversion kit does in case of consolidation changes. PRIMERGY ServerView Suite with remote management functions provides comprehensive management from anywhere at any time. The flexible custom supply model and our build-to-order process mean, that only fully built and pre-tested solutions are shipped to customers. Last but not least Fujitsu Siemens Computers proven commitment to green IT offers clear competitive advantages to our customers.

#### PRIMERGY TX120

The new first generation ultra-compact sized PRIMERGY tower server TX120 with a powerful Intel® Xeon® UP Dual-Core processor incorporates leading edge, low power consumption and space-saving technologies. Thus a significantly smaller footprint, reduced noise and energy savings are achieved. The PRIMERGY TX120 tower server is perfect for office workspaces, for distributed and SOHO applications including retail in-store, back office servers and small office application servers. Enhance your efficiency when it comes to simultaneous execution of multiple applications and downloading mass data. The processor with the Intel® 3000 chipset also supports VT technology.

Two 2.5-inch SAS hot-plug hard disks and the built-in RAID 1 functionality offer high data security. The standard iRMC (Integrated Remote Management Controller) offers enhanced system management, based on IPMI 2.0 technology, and the advanced diagnostic functions with Diagnostic LED increases operational reliability. A DAT drive can also be installed for easy backup or optional two further hot-plug hard disks.

Alternatively an even more power saving Celeron® processor rounds off the offering.



#### Benefits

- World class standard in energy saving reduces TCO with ca. 40% lower power consumption versus other standard tower servers
- World's smallest footprint, installable in office workspaces for fewer concerns about a lack of space (HxWxD 340 x 99 x 399 mm)
- Absolutely quiet system (idle 28 dB and operation 31 dB), thus optimized for use in offices
- A real reliable and powerful server nevertheless!

#### Key Features

- Active power reduced: down to 163 Watts fully equipped, even lower with Celeron® processor
- Reduced space and size:  
1/3 smaller footprint & 1/4 less volume, compared to current 1-socket servers in the market achieved by downsizing the heat pipe and adopting 2.5 inch HDD
- Advanced cooling technologies such as "heat-pipe" cooling and "straight-line cooling" achieve a low noise level equivalent to a whispering voice
- Raid 1 & hot-plug HDD, ECC memory, Server processor Xeon UP, Server Operating System, integrated Remote Management Controller (iRMC) with advanced Pack option

<b>Type</b>	Mono Socket Tower Server
<b>System board</b>	D2550
Chip set	Intel® 3000
Processors	Intel® Celeron® Intel® Xeon® UP(Dual-Core)
Type / Frequencies (GHz)	440 (2.00) 35W/ 3040(1.86) / 3070 (2.66) 65W
Front-Side-Bus	800 / 1066 MHz
Second-Level-Cache	512 KB / 2 MB / 4 MB, ECC
<b>Memory</b>	512 MB up to max. 8 GB
ECC PC2-5300 DDR2 SDRAM; 2 banks with 2 slots each; (512 MB, 1 GB, 2 GB modules)	
Mix and match possible; with dual channel operation better performance (2 capacity equal modules necessary). Single channel (1 module) configuration possible.	
<b>Flash-EPROM</b>	
Local BIOS update with floppy disk; Remote BIOS-Update via LAN with Global Flash and service partition	
<b>Interfaces</b>	
Serial	1 x serial RS-232-C (9-pin)
Keyboard, Mouse	2 x PS/2
USB 2.0	2 x front, 2 x back 1 x internal for backup drives
Graphics	1 x VGA (15-pin)
LAN	1 x RJ45, 1 x service LAN (10/100 Mbit/s)
<b>Onboard or integrated controller**</b>	
IDE	1 x ATA100 for optical drive
SAS (LSI 1064)	4 port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux)
LAN (Broadcom BCM5754)	Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server)
Server management	Integrated Remote Management Controller iRMC, IPMI 2.0 incl. graphics
<b>Hard disk drives</b>	36, 73, 146 Gbyte 2.5-inch SAS (hot-plug)
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
<b>I/O Slots:</b> 1 x PCI-e x8 (x4 wired), low profile 1 x PCIe x1, low profile 1 x PCI 32Bit/33 MHz low profile (5V)	
<b>Drive bays</b>	
for hard disks	2 x 2.5/1-inch, for hot-plug SAS (in slide-in chassis) + 2 HDD box optional, (occupies 3.5/1.6-inch drive bay)
for accessible drives	1x 3.5/1.6-inch for tape or HDD option 1x 5.25/0.5-inch occupied with DVD or DVD-RW

<b>Electrical values</b>	
1x standard power supply	
Output power	250 W
Rated voltage range	100 - 240 V
Rated frequency	50-60 Hz
Max. rated current	100 V - 240 V / 2A – 1A
Rated current in basic configuration	100 V - 240 V / 1.63A – 0.69A
Active power	163 W
Apparent power	166 VA
Heat emission	587 kJ/h (556 btu/h)
<b>Temperature/Noise/Dimensions/Weight</b>	
Ambient temperature	10°C - 35°C (DIN IEC 721-3-3) class 3K2
Declared noise in according with ISO 9296	idle / operating
Sound pressure L <sub>pAm</sub>	< 28 db(A) / < 31 db(A)
Sound power L <sub>WAd</sub>	< 4,0 B / < 4,4 B (1 Bel = 10 db)
Dimension of floor-stand (HxWxD)	340 * 99 * 399 mm (without feet)
Weight	approximately 10 kg (max.)
<b>Compliance with Norms and Standards</b>	
<b>Product safety</b>	
Global	IEC 60950-1
Europe	EN 60950-1
USA	UL 60950-1.
Canada	CAN/CSA-C22.2 No. 60950-1.
<b>Electromagnetic compatibility</b>	
This product and the released accessories, are in compliance with emission class A. In certain cases measures have to be taken to reduce the electro magnetic influence to other equipment.	
Europe	EN 55 022 class A, EN 55024, EN61000-3-2 / -3
USA / Canada	FCC class A
<b>Declaration of conformity</b>	
Europe (CE)	2004/108/EC 2006/95/EC
North America	FCC class A
<b>Approvals</b>	
<b>Product safety</b>	
Global	CB
Europe	CE
USA / Canada	CSA <sub>US</sub> / CSA <sub>C</sub>
There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons, can be applied for on request.	
<b>Supported server operating systems</b>	
See actual release status <a href="#">operating systems</a> : e.g. Windows Server 2003; Novell SUSE Linux Enterprise Server , Red Hat Enterprise Linux (Support of Debian, Ubuntu, Mandriva Linux and other Linux derivatives <a href="#">on demand</a> )	
** For supported controllers (onboard and PCI cards for SCSI, SAS, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.	
<b>Server Management</b> (see separate data sheets)	
Standard	PRIMERGY ServerView Suite; PDA, ASR&R
Optional	RemoteView, iRMC Advanced Pack